

C. OF THE REGULAR BULLETINS, 24 ISSUES.

No. 136.—Fertilizer Analyses of the Fertilizer Control.

January 12, 1897. 34 pp. Including official analyses of spring and fall samples of 1896. The Fertilizer Control Station. Analyses for 1897. The present fertilizer laws. When analyses of fertilizers are made for farmers. The necessity of accurate sampling. The need of fertilizer analyses, and an explanation of terms used. Terms used in analyses. Phosphoric acid. Nitrogen or ammonia. Potash. Water. Guaranteed percentage. Mechanical condition. Relative seaboard value per ton of unmixed ingredients. How the valuations of constituents are determined. How values per ton are calculated, and how they can be utilized by farmers. Table of freight rates from the seaboard to interior points, and the detailed analyses of all fertilizers during 1896.

No. 137.—A Warning in Regard to Compost Peddlers.

January 20, 1897. 8 pp. Warning to the people of North Carolina against the "Champion Chemical Process Company," or any similar concern operated on the same basis. A copy of the circular distributed by the company, and a discussion of the same.

No. 138.—The San Jose Scale in North Carolina.

January 30, 1897. 14 pp. Plants attacked. Original home. Life history. Methods of dissemination. Natural enemies. Remedies. Seven experimental tests. What to do with the infested nursery stock. Formulas for scale insecticides. Whale oil soap, winter rosin wash, hydrocyanic acid gas: Discussion of the formulas and method of applying. Proposed bill regulating inspection. A paper prepared for the General Assembly on crop pests and their damages.

No. 139.—Home-Mixed Fertilizers and Composts.

February 8, 1897. 16 pp. Introduction. The need of home-mixing of fertilizers. The advantage of compost-making. When to prepare composts. How and where to prepare the compost. How much to apply. How and when to apply. Top dressings. Do not apply fertilizers or composts too near the seed or plant. The use of stable manure. Stable manure composted with other ingredients, to be used in addition to those given in the formulas. Cost of ingredients. Approximate retail cost of fertilizing ingredients in Central North Carolina. Formulas for mixtures and composts. Five formulas for mixed fertilizers, and five for composts for cotton and corn. Four formulas for mixed fertilizers. and five for composts for small